

Key to Abbreviations on Tables 1 Through 4

CBD	Colusa Basin Drain
CSO	Combined Sewer Overflow
DFG/DPR	Department of Fish and Game/Department of Pesticide Regulations studies
DOC	Dissolved organic carbon
DWR D-1485	Department of Water Resources Decision 1485 monitoring program
DWR No. Dist.	Department of Water Resources Northern District monitoring studies
DWR-Amy	Department of Water Resources/Gary Amy Study
DWROMP	Department of Water Resources Operations Monitoring Program
EBMUD	East Bay Municipal Utility District extended monitoring program
Fresno NURP	Fresno Nationwide Urban Runoff Program monitoring data
Mod. NPDES	City of Modesto Stormwater National Pollutant Discharge Elimination System Permit application monitoring data
MWD	Metropolitan Water District monitoring data
MWQI	Municipal Water Quality Investigation monitoring program
Napa MP	City of Napa monitoring program
Natomas EMD Canal	Natomas East Main Drainage Canal
RWQCB	Regional Water Quality Control Board, Central Valley Region
Sac DWMP	City of Sacramento Drinking Water Monitoring Program
Sac AMP	Sacramento Ambient Monitoring Program
Sac. NPDES	Sacramento Stormwater National Pollutant Discharge Elimination System Permit compliance monitoring program
Sac. CSOMP	City of Sacramento Combined Sewer Overflow monitoring program
SCVWD	Santa Clara Valley Water District monitoring data

Key to Abbreviations on Tables 1 Through 4 (continued)

2

SRWTP ERWQA	Sacramento Regional Wastewater Treatment Plant Effluent and Receiving Water Quality Assessment monitoring program
SRWTP MODS	Sacramento Regional Wastewater Treatment Plant Operating Data Summary
STORET	U.S. Environmental Protection Agency water quality database
TFPC	Trihalomethane formation potential carbon
THMFP	Trihalomethane formation potential
TOC	Total organic carbon
USBR	U.S. Bureau of Reclamation monitoring program
USGS	U.S. Geological Survey monitoring data

Table 1. Data Sources for Benchmark Locations

Benchmark locations	Data sources
Banks Pumping Plant	<i>MWQI</i>
Tracy Pumping Plant	DWROMP
North Bay Pumping Plant	<i>DWR D-1485</i>
Sacramento River at Greene's Landing	DWR No. Dist
Sacramento River at Freeport (surrogate)	<i>DWR-Amy</i>
Sacramento River at Sacramento Water Treatment Plant intake (surrogate)	<i>USGS</i>
Sacramento River at Verona	<i>STORET</i>
Sacramento River at Fremont Weir (surrogate)	USBR
Sacramento River at Colusa Basin Drain	<i>EBMUD</i>
San Joaquin River at Vernalis	<i>MWD</i>
	<i>SCVWD</i>
	Napa MP
	<i>Sac. DWMP</i>
	<i>Sac. AMP</i>
	<i>SRWTP ERWQA</i>

Note: Data shown in italics have been received either all or in part. All other data are being requested.

Table 2. Data Sources for Watershed Discharges

Alternative	Discharge	Data source
Re-route Colusa Basin Drain and Sacramento Slough agricultural drainage	Colusa Basin Drain Sacramento Slough Natomas East Main Drainage Canal (surrogate)	<i>RWQCB CBD Study</i> <i>DFG/DPR CBD Studies</i> <i>MWQI</i> DWR No. Dist
Divert SRWTP Effluent	SRWTP effluent	<i>SRWTP MODS</i> <i>SRWTP ERWQA</i>
Improve Sacramento urban runoff--50 percent and 100 percent	Sacramento urban runoff Modesto and Fresno urban runoff (surrogates)	<i>Sac. NPDES</i> <i>Mod. NPDES</i> <i>Fresno NURP</i>
Eliminate Sacramento Combined Sewer Overflow	Sacramento CSO outfalls	<i>Sac. CSOMP</i>
Delta agricultural drainage effects	Delta island drains Delta channels	<i>MWQI</i>
Mud and Salt Slough effects	Mud Slough Salt Slough	<i>USGS reports</i> <i>RWQCB reports</i> South Delta Water Agency report
Eastside watershed urbanization effects	Mokelumne River Cosumnes River Calaveras River urban runoff discharges	<i>USGS Water Resources Data</i> <i>Sac. NPDES</i> <i>Mod. NPDES</i> <i>Fresno NURP</i>

Note: Data shown in italics have been received either all or in part. All other data are being requested.

Table 3. Existing Data for Benchmark Locations

Contaminant of concern	Delta			Sacramento River					San Joaquin River
	Banks pumping plant	Tracy pumping plant	North Bay Pumping Plant	Greene's Landing	Greene's Landing surrogates		Verona surrogates		Vernalis
					Freeport	Sacramento WTP	Fremont Weir	Upstream/downstream CBD	
THMFP	✓	✓	✓	✓				✓	✓
TFPC	✓	✓	✓	✓					✓
TOC	✓		✓	✓	✓		✓	✓	✓
DOC	✓	✓	✓	✓	✓				✓
Humic and fulvic acids ^a	✓			✓					✓
UV 254	✓	✓	✓	✓					✓
Bromide	✓	✓	✓	✓				✓	✓
Chlorophyll <u>a</u>				✓					✓
Pheophytin									✓
pH/alkalinity	✓	✓	✓	✓	✓	✓		✓	✓
Total coliform			✓			✓			
Fecal coliform				✓	✓	✓			✓
Giardia ^b			✓	✓					
Cryptosporidium ^c	✓		✓	✓					
Viruses ^d	✓			✓					
Turbidity	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia	✓			✓	✓			✓	✓
Nitrate	✓	✓	✓	✓	✓		✓	✓	✓
Total phosphorus	✓			?	✓		✓	✓	✓
Total and/or total recoverable arsenic	✓	✓	✓				✓	✓	
Dissolved arsenic					✓				✓
Total dissolved solids	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pesticides/herbicides	✓		✓		✓	✓			✓
Flow	✓		✓	✓	✓		✓	✓	✓

^aLimited data from DWR-AMY study.^bLimited data from MWD and Napa MP.^cLimited data from MWD, SCVWD, and Napa MP.^dLimited data from MWD.

Table 4. Existing Data for Watershed Discharges

Contaminant of concern	Sacramento Basin agricultural drainage			SRWTP effluent	Central Valley urban runoff	Sacramento CSO outflows	Delta agricultural drainage		San Joaquin basin agricultural drainage		Eastside tributaries		
	Colusa Basin drain	Sacramento Slough	Natomas EMD Canal				Delta drains	Delta channels	Mud Slough	Salt Slough	Cosumnes River	Calaveras River	Mokelumne River
THMFP	✓	✓	✓				✓	✓					
TFPC			✓				✓	✓					
TOC	✓	✓		✓			✓	✓	✓	✓			✓
DOC			✓	✓	✓		✓	✓					✓
Humic and fulvic acids													
Bromide	✓	✓					✓	✓					
UV 254							✓	✓					
Chlorophyll a									✓	✓			
Pheophytin													
pH/alkalinity	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓
Total coliform				✓	✓	✓							
Fecal coliform					✓	✓							✓
Giardia													
Cryptosporidium													
Viruses													
Turbidity	✓	✓	✓		✓	✓	✓	✓					✓
Ammonia	✓	✓		✓	✓				✓	✓			✓
Nitrate	✓	✓			✓	✓							✓
Total phosphorous	✓	✓			✓	✓			✓	✓			✓
Total and/or total recoverable arsenic	✓	✓		✓	✓	✓			✓	✓			
Dissolved arsenic				✓	✓								
Total dissolved solids	✓	✓		✓	✓	✓			✓	✓			✓
Pesticides/herbicides	✓	✓			✓	✓	✓	✓	✓	✓			
Flow	✓	?		✓	✓	✓		✓	✓	✓			✓

D-036776